

# UTILITY CONSTRUCTION

## NCDOT GENERAL NOTES:

1. THE EXISTING UTILITIES BELONG TO JONES COUNTY AND ONSLOW WATER AND SEWER AUTHORITY (ONWASA).
2. THE PROPOSED UTILITY CONSTRUCTION IN JONES COUNTY SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012. PROPOSED UTILITY CONSTRUCTION IN ONSLOW COUNTY SHALL MEET NCDOT'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012 AND THE ONWASA MANUAL OF STANDARDS, SPECIFICATIONS, AND DETAILS. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE SHALL GOVERN.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT AND THE UTILITY OWNER. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPROTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.
6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITONAL COST TO THE DEPARTMENT.


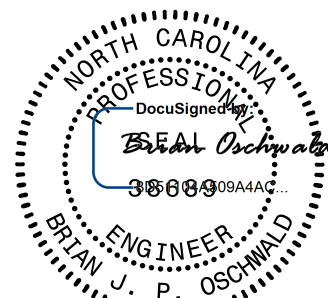
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## TWC PROJECT GENERAL NOTES:

1. EXISTING UTILITIES ARE LOCATED ON PLANS APPROXIMATELY. NOTIFY UTILITY LOCATING SERVICE TO MARK LOCATION OF EXISTING UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. CONTRACTOR RESPONSIBLE FOR VERIFYING EXACT LOCATION OF THESE EXISTING UTILITIES. THE COST TO REPAIR THESE FACILITIES, IF DAMAGED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT AND NOT TO DISTURB EXISTING PROPERTY CORNER MARKERS. ALL DISTURBED PROPERTY CORNER MARKERS SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR.
3. FOR AREAS OUTSIDE NCDOT RIGHT-OF-WAY, CLEAR AND GRUB PERMANENT EASEMENT IN ITS ENTIRETY AND TEMPORARY EASEMENT ONLY AS NECESSARY TO INSTALL UTILITY. REMOVE MINOR ITEMS AS REQUIRED FOR THE INSTALLATION OF THE UTILITY. MINOR ITEMS SHALL INCLUDE, BUT NOT BE, LIMITED TO, EXISTING SIGNS, MAIL BOXES, STORM SEWER PIPES AND REINSTALL ITEMS TO THEIR ORIGINAL CONDITION. INCLUDE COSTS IN THE PER FOOT COST OF THE UTILITY BEING INSTALLED.
4. SUPPORT, RELOCATE, ADJUST, OR REMOVE AND REPLACE EXISTING UTILITY POLES, FENCES, CULVERTS, PAVEMENT, UTILITIES, CURBING AND OTHER STRUCTURES DURING CONSTRUCTION. REPAIR DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST.

## NCDOT PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE SHALL BE RJDI (RESTRAINED JOINT DUCTILE IRON) AS INDICATED ON THE CONSTRUCTION DRAWINGS. WATER LINE INSTALLATION THROUGH ENCASEMENT PIPE SHALL BE RJDI AS SHOWN IN THE PROFILE.
2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS AND APPLICABLE ONWASA STANDARDS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
3. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL, IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.
5. 6 INCHES OF NCDOT ABC AGGREGATE SHALL BE PROVIDED FOR THE FULL WIDTH OF UNPAVED DRIVEWAYS AND OTHER GRAVEL AREAS FOR THE DISTURBED AREAS. CONTRACTOR SHALL MINIMIZE DISTURBANCE.
6. OPEN CUT PAVED AREAS, INCLUDING DRIVEWAYS, SIDEWALK, AND CURB AND GUTTER. OUTSIDE OF NCDOT ROAD CONSTRUCTION LIMITS, REPLACE PAVEMENT AND CURB AND GUTTER WITH NEW TO MATCH THE EXISTING CROSS SECTION.
7. CONTRACTOR SHALL USE CAUTION WHEN CROSSING EXISTING STORM SEWER, ESPECIALLY OLD STYLE RCP (BELL PIPE). CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING DAMAGE TO THESE FACILITIES AT NO ADDITIONAL COST TO THE OWNER.
8. ALL CONSTRUCTION AND TESTING IN ONSLOW COUNTY SHALL BE PER ONWASA STANDARDS AND NCDOT STANDARDS. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE SHALL GOVERN. ALL CONSTRUCTION AND TESTING IN JONES COUNTY SHALL BE PER NCDOT STANDARDS.
9. ANY SERVICE INTERRUPTED BY THE CONTRACTOR SHALL BE RETURNED TO SERVICE AS SOON AS POSSIBLE AND IN NO CASE BEYOND THE END OF THE WORKING DAY.
10. CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES INCLUDING VALVES AND APPURTENANCES IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IF NOT IN CONFLICT, USE NCDOT STANDARDS SECTION 1530 FOR ABANDONING UTILITY.

<div>PREPARED IN THE OFFICE OF:</div> <div> THE WOOTEN COMPANY ENGINEERING   PLANNING   ARCHITECTURE 120 North Eagle Avenue Raleigh, NC 27603-1423 919.828.6531 fax 919.834.5985 License Number: F-4015</div>	PROJECT REFERENCE NO.		SHEET NO.
	R-2514B		UC-3
	DESIGNED BY: BJPO		
	DRAWN BY: TK		
	CHECKED BY: BJPO		
APPROVED BY: MDS			
VERTICAL SCALE 5' 0 5' 10'		HORIZONTAL SCALE 25' 0 25' 50'	
ONLY WATER LINE CONSTRUCTION SHOWN ON THIS SHEET			
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		2/3/2015 UTILITY CONSTRUCTION PLANS ONLY	

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12. CONTRACTOR SHALL ADJUST ALL REMAINING UTILITY COVERS TO MATCH PROPOSED GRADE PER NCDOT PLANS.
13. ALL PIPE INSTALLED IS PAID FOR BASED ON HORIZONTAL DISTANCE ONLY.
14. ALL FITTINGS, MARKERS, PLUGS, POLYETHYLENE WRAP, LININGS, AND OTHER APPURTENANCES ARE INCIDENTAL TO THE PIPE.
15. ALL EROSION CONTROL MEASURES TO BE PER NCDOT ROADWAY PLANS. ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO KEEP SEDIMENT ON SITE SHALL BE INSTALLED AT NO ADDITIONAL COST.
16. EXISTING CONDITIONS SURVEY AND PROPOSED ROADWAY PLANS PROVIDED TO THE WOOTEN COMPANY BY NCDOT, OCTOBER 20, 2014.
17. PROPOSED TELEPHONE AND FIBER OPTIC RELOCATION PLAN PROVIDED TO THE WOOTEN COMPANY BY RK & K, OCTOBER 20, 2014.
18. CONTRACTOR TO INSTALL ALL OPEN CUT WATER LINE USING TYPE 4 EMBEDMENT DETAIL, FOUND ON SHEET UC-3A, WATER MAIN EMBEDMENT DETAIL.